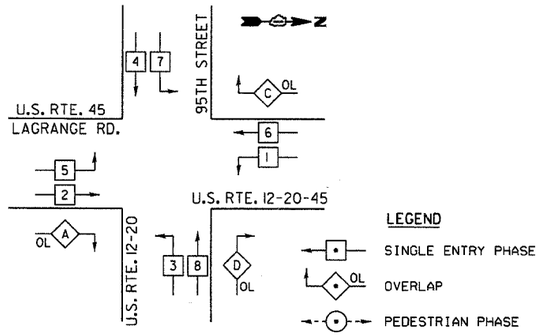
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
029	2001-050-TS	COOK	21	8
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT# 62201

CONTROLLER SEQUENCE



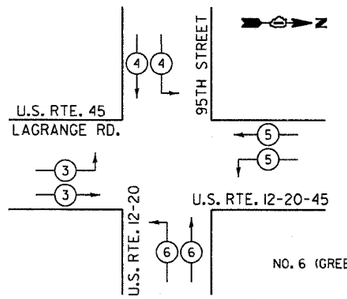
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
C	6	7
D	8	1

SCHEDULE OF QUANTITIES

UNIT	QUANTITY	ITEM
EACH	1	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

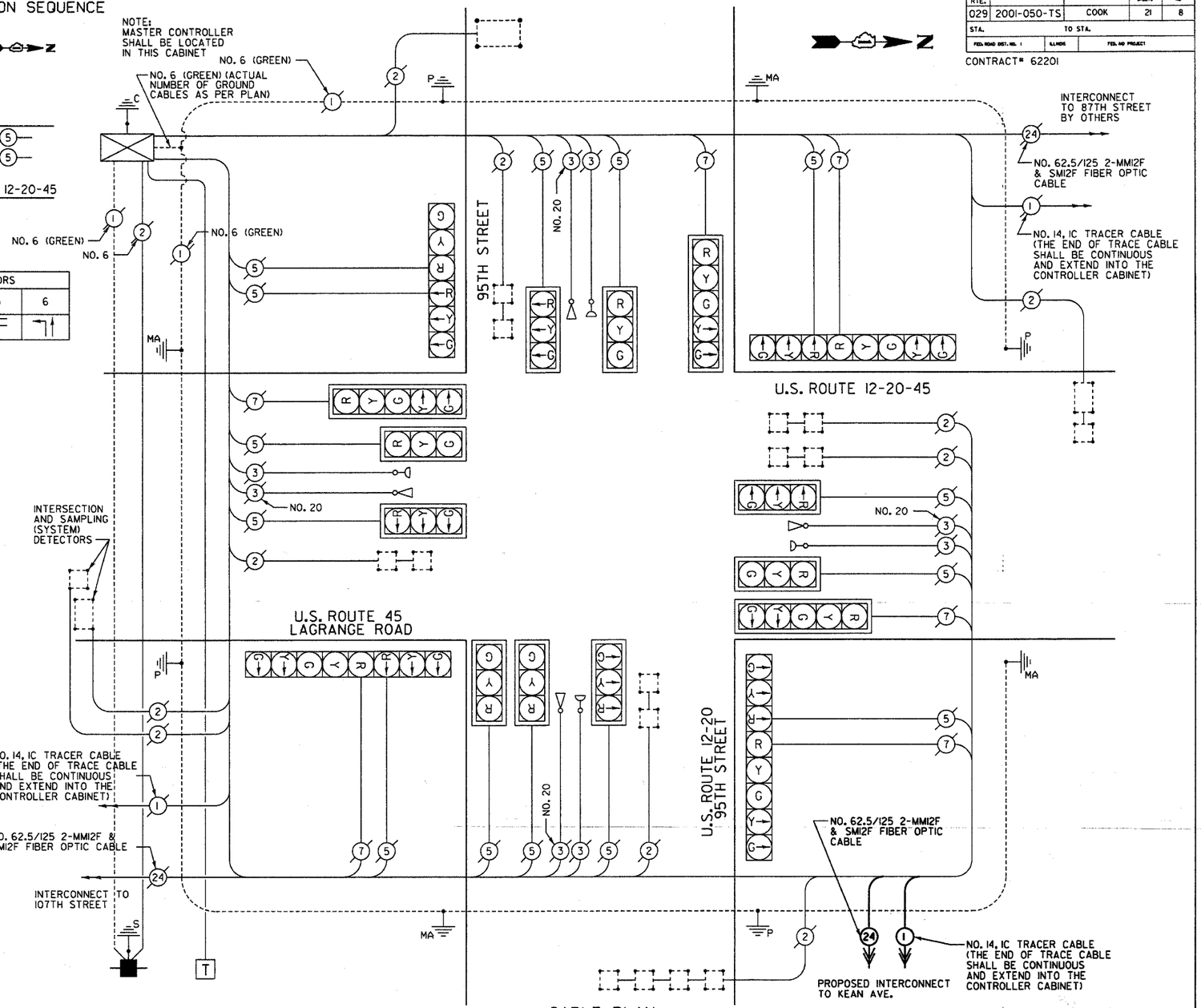
EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
(2)	(2)	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOOP DETECTOR CABLE TO BE SHIELDED.
		MICROWAVE VEHICLE SENSOR
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
"E"	"E"	RAILROAD CONTROL CABINET
"E"	"E"	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
"E"	"E"	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
P	P	GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
(1)	(1)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MMI2F SMI2F



©100% COST TO PALOS HILLS FIRE DEPARTMENT

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						TOTAL WATTAGE
TYPE	NO. LAMPS	X	WATTAGE INCAN	WATTAGE LED	% OPERATION	
SIGNAL (RED)	20		135	17	0.50	170.0
(YELLOW)	20		135	25	0.25	125.0
(GREEN)	20		135	15	0.25	75.0
ARROW	12		135	12	0.10	14.4
PED. SIGNAL			90	25	1.00	
CONTROLLER	2		100	00	1.00	200.0
ILLUM. SIGN			84		0.05	
FLASHER					0.50	
					TOTAL =	584.4

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER ST.
SCHAUMBERG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: LARRY WOODLE
PHONE: (815) 724-5674
COMPANY: COM. EDISON

FOUNDATION (DEPTH)	FT. (M)	CABLE SLACK	FT. (M)	VERTICAL CABLE	FT. (M)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L+2' (6M+L+0.6M)
E- M. ARM POLE		SIGNAL POST	2 (1.0)		
24" (600MM)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750MM)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

PURPOSE OF THIS SHEET IS TO SHOW PROPOSED INTERCONNECT CABLE FROM KEAN AVE. TO THE EXISTING TRAFFIC SIGNAL CONTROLLER AT THE SOUTHWEST CORNER OF U.S. RTE. 12-20-45 AND 95TH ST.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN PHASE DESIGNATION DIAGRAM EMERGENCY PREEMPTION SEQUENCE SCHEDULE OF QUANTITIES

U.S. RTE. 12-20-45 LAGRANGE ROAD & 95th STREET

SCALE : NTS
DATE : 12/03/05
DRAWN BY :PRT
DESIGNED BY :RKF
CHECKED BY :JVV

MORRIS ENGINEERING, INC.

05-009

$FILE$ $DATE$ $TIME$